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Department of Environmental Quality
Division of Air Quality

Site ID: 10354

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Title V Operating Permit

PERMIT NUMBER: 3500063001

DATE OF PERMIT: December 3, 2002

Date of Last Revision: December 3, 2002

This Operating Permit is issued to, and applies to the following:

Name of Permittee:

University of Utah
200 South University Ave
Salt Lake City, UT 84112

Permitted Location:

University of Utah facilities
200 South University Ave
Salt Lake City, UT 84112

UTM coordinates: 4,512,800 meters Northing, 429,440 meters Easting
SIC code: 8221

ABSTRACT

Emissions from the University of Utah are primarily due to the operation of: boilers, comfort heating equipment, and emergency generators. Large boilers located on the Lower Campus are covered by the Utah State Implementation Plan (SIP) Section IX, Part H.2. Large boilers located on the Upper Campus, Huntsman Center, and at Rice Stadium are not covered by the SIP, but are subject to the New Source Performance Standard (NSPS) found in 40 CFR 60 Subpart Dc. The University of Utah is a major source of carbon monoxide (CO) and oxides of nitrogen (NO_x).

UTAH AIR QUALITY BOARD

By:

Richard W. Sprott, Executive Secretary

Prepared By:

Robert Grandy

Operating Permit History

12/3/2002 - Permit issued	Action initiated by an initial operating permit application	
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Issued under authority of Utah Code Ann. Section 19-2-104 and 19-2-109.1, and in accordance with Utah Administrative Code R307-415 Operating Permit Requirements.

All definitions, terms and abbreviations used in this permit conform to those used in Utah Administrative Code R307-101 and R307-415 (Rules), and 40 Code of Federal Regulations (CFR), except as otherwise defined in this permit. Unless noted otherwise, references cited in the permit conditions refer to the Rules.

Where a permit condition in Section I, General Provisions, partially recites or summarizes an applicable rule, the full text of the applicable portion of the rule shall govern interpretations of the requirements of the rule. In the case of a conflict between the Rules and the permit terms and conditions of Section II, Special Provisions, the permit terms and conditions of Section II shall govern except as noted in Provision I.M, Permit Shield.

Section I: General Provisions

I.A. Federal Enforcement.

All terms and conditions in this permit, including those provisions designed to limit the potential to emit, are enforceable by the EPA and citizens under the Clean Air Act of 1990 (CAA) except those terms and conditions that are specifically designated as "State Requirements". (R307-415-6b)

I.B. Permitted Activity(ies).

Except as provided in R307-415-7b(1), the permittee may not operate except in compliance with this permit. (See also Provision I.E, Application Shield)

I.C. Duty to Comply.

I.C.1 The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; or denial of a permit renewal application. (R307-415-6a(6)(a))

I.C.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (R307-415-6a(6)(b))

I.C.3 The permittee shall furnish to the Executive Secretary, within a reasonable time, any information that the Executive Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Executive Secretary copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA along with a claim of confidentiality. (R307-415-6a(6)(e))

I.C.4 This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance shall not stay

any permit condition, except as provided under R307-415-7f(1) for minor permit modifications. (R307-415-6a(6)(c))

I.D. Permit Expiration and Renewal.

I.D.1 **This permit is issued for a fixed term of five years and expires on December 3, 2007.** (R307-415-6a(2))

I.D.2 Application for renewal of this permit is due by June 3, 2007. An application may be submitted early for any reason. (R307-415-5a(1)(c))

I.D.3 An application for renewal submitted after the due date listed in I.D.2 above shall be accepted for processing, but shall not be considered a timely application and shall not relieve the permittee of any enforcement actions resulting from submitting a late application. (R307-415-5a(5))

I.D.4 Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted consistent with R307-415-7b (see also Provision I.E, Application Shield) and R307-415-5a(1)(c) (see also Provision I.D.2). (R307-415-7c(2))

I.E. Application Shield.

If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit will not be a violation of R307-415, until the Executive Secretary takes final action on the permit renewal application. In such case, the terms and conditions of this permit shall remain in force until permit renewal or denial. This protection shall cease to apply if, subsequent to the completeness determination required pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the Executive Secretary any additional information identified as being needed to process the application. (R307-415-7b(2))

I.F. Severability.

In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force. (R307-415-6a(5))

I.G. Permit Fee.

I.G.1 The permittee shall pay an annual emission fee to the Executive Secretary consistent with R307-415-9. (R307-415-6a(7))

I.G.2 The emission fee shall be due on October 1 of each calendar year or 45 days after the source receives notice of the amount of the fee, whichever is later. (R307-415-9(4)(a))

I.H. No Property Rights.

This permit does not convey any property rights of any sort, or any exclusive privilege. (R307-415-6a(6)(d))

I.I. Revision Exception.

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (R307-415-6a(8))

I.J. Inspection and Entry.

I.J.1 Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Executive Secretary or an authorized representative to perform any of the following:

I.J.1.a Enter upon the permittee's premises where the source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit. (R307-415-6c(2)(a))

I.J.1.b Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. (R307-415-6c(2)(b))

I.J.1.c Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. (R307-415-6c(2)(c))

I.J.1.d Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements. (R307-415-6c(2)(d))

I.J.2 Any claims of confidentiality made on the information obtained during an inspection shall be made pursuant to Utah Code Ann. Section 19-1-306. (R307-415-6c(2)(e))

I.K. Certification.

Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification as to its truth, accuracy, and completeness, by a responsible official as defined in R307-415-3. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R307-415-5d)

I.L. Compliance Certification.

I.L.1 Permittee shall submit to the Executive Secretary an annual compliance certification, certifying compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall be submitted no later than **December 3, 2003** and that date each year following until this permit expires. The certification shall include all the following (permittee may cross-reference this permit or previous reports): (R307-415-6c(5))

I.L.1.a The identification of each term or condition of this permit that is the basis of the certification;

I.L.1.b The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period, and

whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements in this permit. If necessary, the permittee also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;

- I.L.1.c The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in Provision I.L.1.b. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and
- I.L.1.d Such other facts as the Executive Secretary may require to determine the compliance status.
- I.L.2 The permittee shall also submit all compliance certifications to the EPA, Region VIII, at the following address or to such other address as may be required by the Executive Secretary: (R307-415-6c(5)(d))

Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
EPA, Region VIII
999 18th Street, Suite 300
Denver, CO 80202-2466

I.M. Permit Shield.

- I.M.1 Compliance with the provisions of this permit shall be deemed compliance with any applicable requirements as of the date of this permit, provided that:
- I.M.1.a Such applicable requirements are included and are specifically identified in this permit, or (R307-415-6f(1)(a))
- I.M.1.b Those requirements not applicable to the source are specifically identified and listed in this permit. (R307-415-6f(1)(b))
- I.M.2 Nothing in this permit shall alter or affect any of the following:
- I.M.2.a The emergency provisions of Utah Code Ann. Section 19-1-202 and Section 19-2-112, and the provisions of the CAA Section 303. (R307-415-6f(3)(a))
- I.M.2.b The liability of the owner or operator of the source for any violation of applicable requirements under Utah Code Ann. Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b))
- I.M.2.c The applicable requirements of the Acid Rain Program, consistent with the CAA Section 408(a). (R307-415-6f(3)(c))

I.M.2.d The ability of the Executive Secretary to obtain information from the source under Utah Code Ann. Section 19-2-120, and the ability of the EPA to obtain information from the source under the CAA Section 114. (R307-415-6f(3)(d))

I.N. Emergency Provision.

I.N.1 An “emergency” is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. (R307-415-6g(1))

I.N.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the affirmative defense is demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

I.N.2.a An emergency occurred and the permittee can identify the causes of the emergency. (R307-415-6g(3)(a))

I.N.2.b The permitted facility was at the time being properly operated. (R307-415-6g(3)(b))

I.N.2.c During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit. (R307-415-6g(3)(c))

I.N.2.d The permittee submitted notice of the emergency to the Executive Secretary within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirement of Provision I.S.2.c below. (R307-415-6g(3)(d))

I.N.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. (R307-415-6g(4))

I.N.4 This emergency provision is in addition to any emergency or upset provision contained in any other section of this permit. (R307-415-6g(5))

I.O. Operational Flexibility.

Operational flexibility is governed by R307-415-7d(1).

I.P. Off-permit Changes.

Off-permit changes are governed by R307-415-7d(2).

I.Q. Administrative Permit Amendments.

Administrative permit amendments are governed by R307-415-7e.

I.R. **Permit Modifications.**

Permit modifications are governed by R307-415-7f.

I.S. **Records and Reporting.**

I.S.1 Records.

I.S.1.a The records of all required monitoring data and support information shall be retained by the permittee for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-charts or appropriate recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. (R307-415-6a(3)(b)(ii))

I.S.1.b For all monitoring requirements described in Section II, Special Provisions, the source shall record the following information, where applicable: (R307-415-6a(3)(b)(i))

I.S.1.b.1 The date, place as defined in this permit, and time of sampling or measurement.

I.S.1.b.2 The date analyses were performed.

I.S.1.b.3 The company or entity that performed the analyses.

I.S.1.b.4 The analytical techniques or methods used.

I.S.1.b.5 The results of such analyses.

I.S.1.b.6 The operating conditions as existing at the time of sampling or measurement.

I.S.1.c Additional record keeping requirements, if any, are described in Section II, Special Provisions.

I.S.2 Reports.

I.S.2.a Monitoring reports shall be submitted to the Executive Secretary every six months, or more frequently if specified in Section II. All instances of deviation from permit requirements shall be clearly identified in the reports. (R307-415-6a(3)(c)(i))

I.S.2.b All reports submitted pursuant to Provision I.S.2.a shall be certified by a responsible official in accordance with Provision I.K of this permit. (R307-415-6a(3)(c)(i))

I.S.2.c The Executive Secretary shall be notified promptly of any deviations from permit requirements including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken. **Prompt, as used in this condition, shall be defined as written notification within 14 days.** Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107. (R307-415-6a(3)(c)(ii))

I.S.3 Notification Addresses.

I.S.3.a All reports, notifications, or other submissions required by this permit to be submitted to the Executive Secretary are to be sent to the following address or to such other address as may be required by the Executive Secretary:

Utah Division of Air Quality
P.O. Box 144820
Salt Lake City, UT 84114-4820
Phone: 801-536-4000

I.S.3.b All reports, notifications or other submissions required by this permit to be submitted to the EPA should be sent to one of the following addresses or to such other address as may be required by the Executive Secretary:

For annual compliance certifications

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and
Environmental Justice (mail code 8ENF)
999 18th Street, Suite 300
Denver, CO 80202-2466

For reports, notifications, or other correspondence
related to permit modifications, applications, etc.

Environmental Protection Agency, Region VIII
Office of Partnerships & Regulatory Assistance
Air & Radiation Program (mail code 8P-AR)
999 18th Street, Suite 300
Denver, CO 80202-2466
Phone: 303-312-6440

I.T. **Reopening for Cause.**

I.T.1 A permit shall be reopened and revised under any of the following circumstances:

I.T.1.a New applicable requirements become applicable to the permittee and there is a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the terms and conditions of this permit have been extended pursuant to R307-415-7c(3), application shield. (R307-415-7g(1)(a))

I.T.1.b The Executive Secretary or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (R307-415-7g(1)(c))

I.T.1.c EPA or the Executive Secretary determines that this permit must be revised or revoked to assure compliance with applicable requirements. (R307-415-7g(1)(d))

I.T.1.d Additional applicable requirements are to become effective before the renewal date of this permit and are in conflict with existing permit conditions. (R307-415-7g(1)(e))

I.T.2 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. (R307-415-7g(2))

I.U. **Inventory Requirements.**

I.U.1 An emission inventory shall be submitted in accordance with the procedures of R307-150, Emission Inventories. (R307-150)

I.U.2 A Hazardous Air Pollutant Inventory shall be submitted in accordance with the procedures of R307-155, Hazardous Air Pollutant Inventory. (R307-155)

I.U.3 An emission statement shall be submitted in accordance with the procedures in R307-158, Emission Statement Inventory. (R307-158)

Section II: SPECIAL PROVISIONS

II.A. Emission Unit(s) Permitted to Discharge Air Contaminants.

(R307-415-4(3)(a) and R307-415-4(4))

II.A.1 Misc. Parts Washers (subject to R307-335-2) (designated as 23)

Unit Description: Miscellaneous parts washers located on campus using VOC containing solvents and subject to R307-335-2. Does not include parts washers using citrus based solvents.

II.A.2 LC Boilers, UH Boilers, Misc Equip, and Generators (designated as 1-11)

Unit Description: Includes LC (Lower Campus) Boilers, UH (University Hospital) Boilers, Misc Equip (natural gas), and Generators (emergency diesel) described below.

II.A.3 LC Boilers (designated as 1-5)

Unit Description: Five pre-NSPS boilers located on the lower campus in building 303 that can burn natural gas or coal. Boilers 1-2 are rated at approximately 60 MMBTU/hr each. Boilers 3-5 are rated at approximately 105 MMBTU/hr each.

II.A.4 UH Boilers (designated as 6-9)

Unit Description: Three natural gas fired boilers located at the University Hospital. One boiler rated about 9.83 MMBTU/hr (Building 521). Two boilers rated about 9.88 MMBTU/hr each (Building 525).

II.A.5 Misc Equip (designated as 10)

Unit Description: Miscellaneous natural gas fired boilers, hotwater heaters, and comfort heaters, each with a rating less than 5 MMBTU/hr. Also, natural gas fired emergency generators with a total combined rating of 495 kW.

II.A.6 Generators (designated as 11)

Unit Description: Emergency diesel generators with an approx. combined capacity of 7,027 kW located in the following buildings: 7, 14, 28, 49, 57, 63, 84, 87, 95, 179, 205, 210, 240, 301, 303, 305, 347, 500, 525, 533, 540, 570, 585, 587, and 4 portable units.

II.A.7 UC NSPS Boilers (designated as 13)

Unit Description: Three NSPS boilers located at the upper campus (UC) high temperature water-heating plant. Boilers all have 15% flue gas recirculation, and are fired on natural gas or diesel. Approximate rating for each boiler is 87.5 MMBTU/hr.

II.A.8 UC Emergency Generator (designated as 14)

Unit Description: One diesel fired emergency generator located at the upper campus (UC) high temperature water-heating plant. Approximate rating is 800 kW.

II.A.9 New Student Housing -Rice Stadium NG Equipment (designated as 18)

Unit Description: Includes all natural gas fired equipment located in New Student Housing and Rice Stadium.

II.A.10 Rice Stadium NSPS Boiler (designated as 15)

Unit Description: Natural gas fired boiler rated at approximately 14.7 MMBTU/hr.

II.A.11 Rice Stadium Small Boiler (designated as 30)

Unit Description: Boiler rated at less than 5 MMBTU/hr, located on east side of stadium.

II.A.12 Rice Stadium Emergency Diesel Generator (designated as 16)

Unit Description: One diesel fired emergency generator having an approximate rating of 900 kW (317 bhp).

- II.A.13 **New Student Housing Emergency Diesel Generators** (designated as 17)
Unit Description: Three diesel fired emergency generators identified as follows: Building 800, approximate rating of 66 kW (68 bhp); Building 815, approximate rating of 66 kW (68 bhp); Building 822, approximate rating of 208 kW (317 bhp).
- II.A.14 **Combustion Lab- U-Furnace** (designated as 22)
Unit Description: Natural gas fired U-furnace that can burn natural gas, coal, and various other experimental fuels. Located in the Merrill Engineering Building, room 2505b.
This furnace has an approximate rating of 0.15 MMBTU/hr.
- II.A.15 **Paint Booth and Print Plant Combined** (designated as 12)
Unit Description: Includes the paint booth located in Building 350 and equipment located in the printing plant.
- II.A.16 **Print Plant** (designated as 24)
Unit Description: Printing operations including letter and offset presses.
- II.A.17 **Paint Booth** (designated as 25)
Unit Description: Painting operation located in Building 350 used primarily for refinishing woodfurniture. Equipped with particulate filters.
- II.A.18 **Huntsman Cancer Institute** (designated as 26)
Unit Description: Includes two NSPS Boilers (~16.8 MMBTU/hr each), two Small Boilers (~5 MMBTU/hr each), and Two Diesel Emergency Generators(~2,000 kW and ~750 kW).
- II.A.19 **Huntsman Cancer Institute - NSPS Boilers** (designated as 27)
Unit Description: Two natural gas fired boilers, each rated approximately 16.8 MMBTU/hr.
- II.A.20 **Huntsman Cancer Institute - Small Boilers** (designated as 28)
Unit Description: Two small natural gas fired boilers, each rated at approximately 5 MMBTU/hr.
- II.A.21 **Huntsman Cancer Institute - Diesel Em. Generators.**(designated as 29)
Unit Description: Two diesel-fired emergency generators rated at approximately 750 kW and 2,000 kW.
- II.A.22 **Incinerator** (designated as 30)
Unit Description: Incinerator for the combustion of pathological waste, low level radioactive waste, or chemotherapeutic waste. The incinerator is located in the Animal Resource Center.
- II.A.23 **Laboratory Fume Hoods** (designated as 31)
Unit Description: Laboratory fume hoods located throughout the campus.
- II.A.24 **Small Fuel Storage Tanks** (designated as 32)
Unit Description: Various fuel tanks located throughout the campus; each tank has a storage capacity of 10,000 gallons or less. No unit-specific applicable requirements.
- II.A.25 **Fuel Storage Tanks (NSPS)** (designated as 33)
Unit Description: Located at University Hospital. Two diesel tanks approximately 20,000 gallons each, one diesel tank approximately 30,000 gallons, and one jet fuel tank approximately 12,000 gallons. These tanks are subject to 40 CFR Part 60, Subpart Kb.

II.B. **Requirements and limitations.**

The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated: (R307-415-6a(1))

II.B.1

Conditions on Misc. Parts Washers (subject to R307-335-2) (23)

II.B.1.a

Condition:

The permittee shall ensure that the following conditions are met:

(1) Each solvent degreaser is equipped with a cover which shall remain closed except during actual loading, unloading or handling of parts in cleaner. The cover shall be designed so that it can be easily operated with one hand if

(a) the volatility of the solvent is greater than 2 kPa (15 mm Hg or 0.3 psi) measured at 38 degrees C (100 degrees F),

(b) the solvent is agitated, or

(c) the solvent is heated.

(2) An internal draining rack for cleaned parts shall be installed on which parts shall be drained until all dripping ceases. If the volatility of the solvent is greater than 4.3 kPa (32 mm Hg at 38 degrees C (100 degrees F)), the drainage facility must be internal, so that parts are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type cannot fit into the cleaning system.

(3) Waste or used solvent shall be stored in covered containers. Waste solvents or waste materials which contain solvents shall be disposed of by recycling, reclaiming, by incineration in an incinerator approved to process hazardous materials, or by an alternate means approved by the executive secretary.

(4) Tanks, containers and all associated equipment shall be maintained in good operating condition and leaks shall be repaired immediately or the degreaser shall be shutdown.

(5) Written procedures for the operation and maintenance of the degreasing or solvent cleaning equipment shall be permanently posted in an accessible and conspicuous location near the equipment.

(6) If the solvent volatility is greater than 4.3 kPa (33 mm Hg or 0.6 psi) measured at 38 degrees C (100 degrees F), or if solvent is heated above 50 degrees C (120 degrees F), then one of the following control devices shall be used:

(a) freeboard that gives a freeboard ratio greater than 0.7;

(b) water cover if the solvent is insoluble in and heavier than water;

(c) other systems of equivalent control, such as a refrigerated chiller or carbon absorption.

(7) If used, the solvent spray shall be a solid fluid stream at a pressure which does not cause excessive splashing and may not be a fine, atomized or shower type spray.

[Authority granted under R307-335-2; condition originated in R307-335-2]

II.B.1.a.1

Monitoring:

A visual observation shall be conducted monthly for all equipment and applicable work practices.

II.B.1.a.2

Recordkeeping:

Results of monthly inspections and the volatility of the solvent(s) being used shall be recorded and maintained as described in Provision I.S.1 of this permit.

II.B.1.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.2

Conditions on LC Boilers, UH Boilers, Misc Equip, and Generators (1-11)

II.B.2.a

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the boilers, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307- 401- 6(1) [BACT], Utah SIP Section IX.H.2.b.YY; condition originated in DAQE-128-01]

II.B.2.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.2.a.2

Recordkeeping:

Records documenting scheduled and unscheduled maintenance shall be maintained. A copy of all manufacturers' instructions, established operating instructions, or established maintenance practices for pollution control equipment and pollution emitting equipment shall be made available upon request.

II.B.2.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.2.b

Condition:

The following consumption limits shall not be exceeded:

(A) 945.8 MM Scf of natural gas per rolling 12-month period for Boilers 1-5, of which total consumption for Boilers 3-5 shall not exceed 698 MM Scf per rolling 12-month period.

(B) 200 MM Scf of natural gas per rolling 12-month period for the other boilers and generators.

(C) 1,060 tons of coal per rolling 12-month period.

[Authority granted under R307-401(6) [BACT]; condition originated in DAQE-128-01]

II.B.2.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.2.b.2

Recordkeeping:

Fuel consumption shall be determined based on a 12-month rolling total calculated by 20th day of each month using the previous 12 months data. Monthly natural gas consumption for Boilers 1-5 shall be determined using gas meters installed on each boiler. Monthly natural gas consumption for other boilers and generators shall be determined using monthly billings. Monthly coal consumption shall be determined with coal firing records for Boilers 1-5.

II.B.2.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3

Conditions on LC Boilers (1-5)

II.B.3.a

Condition:

Emissions of the specified pollutants from Boilers 1&2 shall not exceed the following amounts:

(a) From each boiler while burning natural gas:

NO_x 10.0 lb/hr and 117 ppmdv (3% O₂ dry).

(b) From each boiler while burning coal:

(1) NO_x 42.6 lb/hr and 485 ppmdv (3% O₂ dry).

(2) SO₂ 71.3 lb/hr and 582 ppmdv (3% O₂ dry).

(3) PM₁₀ 23.8 lb/hr and 0.23 grains/dscf (68 degrees F, 29.92 in Hg).

[Authority granted under R307-401-6(1) (BACT) & Utah SIP Section IX.H.2.b.YY; condition originated in DAQE-128-01]

II.B.3.a.1

Monitoring:

(1) Stack testing frequency:

(a) Coal firing:

(i) PM₁₀- every 3 years based on the date of the last stack test.

(ii) SO₂- every 3 years based on the date of the last stack test.

(iii) NO_x- every 3 years based on the date of the last stack test.

(b) Natural gas firing:

(i) NO_x- every 3 years based on the date of the last stack test.

(2) Sample location: 40 CFR 60, Appendix A, Method 1.

(3) Volumetric flow rate: 40 CFR 60, Appendix A, Method 2.

(4) Stack testing methods:

(a) Coal firing:

(i) PM_{10} : For stacks in which no liquid drops are present, 40 CFR 51, Appendix M, Methods 201 or 201a shall be used. The back half condensibles shall also be tested using a method approved by the Executive Secretary. All particulate captured shall be considered PM_{10} .

For stacks in which liquid drops are present, methods to eliminate the liquid drops shall be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate. The back half condensibles shall also be tested using a method specified by the Executive Secretary. The portion of the front half of the catch considered PM_{10} shall be based on information in AP-42, Appendix C or other data acceptable to the Executive Secretary.

The back half condensibles shall be used for inventory purposes only.

(ii) SO_2 : 40 CFR 60, Appendix A, Method 6, 6A, 6B, or 6C.

(iii) NO_x : 40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D or 7E.

(b) Natural Gas Firing:

(i) NO_x : 40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D or 7E.

(5) Calculations: To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.

(6) Production rate during testing: The production rate during testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

(7) Notification: At least 30 days prior to conducting stack testing, the permittee shall notify the Executive Secretary of the date, time and place of such testing. A source test protocol shall be submitted along with the testing notification sent to the Executive Secretary. The source test protocol shall be approved by the Executive Secretary prior to testing. The source test protocol shall outline the

proposed test methodologies, stack to be tested, and procedures to be used. A pretest conference shall be held, if directed by the Executive Secretary. The pretest conference shall include representation from the permittee, the tester, and the Executive Secretary. The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

II.B.3.a.2

Recordkeeping:

Results of all stack testing shall be recorded and maintained in accordance with the associated test method and Provision S.1 in Section I of this permit.

II.B.3.a.3

Reporting:

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.

II.B.3.b

Condition:

Emissions of the specified pollutants from Boilers 3,4, and 5 shall not exceed the following amounts:

(a) For each boiler while burning natural gas:

NO_x 25.0 lb/hr and 187 ppmdv (3% O₂ dry).

(b) For each boiler while burning coal:

(1) NO_x 74.7 lb/hr and 485 ppmdv (3% O₂ dry).

(2) SO₂ 125 lb/hr and 582 ppmdv (3% O₂ dry).

(3) PM₁₀ 41.6 lb/hr and 0.23 grains/dscf (68 degrees F, 29.92 in Hg).

[Authority granted under R307-401-6(1) (BACT) & Utah SIP Section IX.H.2.b.YY; condition originated in DAQE-128-01]

II.B.3.b.1

Monitoring:

(1) Stack testing frequency:

(a) Coal firing:

(i) PM₁₀- every 3 years based on the date of the last stack test.

(ii) SO₂- every 3 years based on the date of the last stack test.

(iii) NO_x- every 3 years based on the date of the last stack test.

(b) Natural gas firing:

(i) NO_x- every 3 years based on the date of the last stack test.

(2) Sample location: 40 CFR 60, Appendix A, Method 1.

(3) Volumetric flow rate: 40 CFR 60, Appendix A, Method 2.

(4) Stack testing methods:

(a) Coal firing:

(i) PM₁₀: For stacks in which no liquid drops are present, 40 CFR 51, Appendix M, Methods 201 or 201a shall be used. The back half condensibles shall also be tested using a method approved by the Executive Secretary. All particulate captured shall be considered PM₁₀.

For stacks in which liquid drops are present, methods to eliminate the liquid drops shall be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate. The back half condensibles shall also be tested using a method specified by the Executive Secretary. The portion of the front half of the catch considered PM₁₀ shall be based on information in AP-42, Appendix C or other data acceptable to the Executive Secretary.

The back half condensibles shall be used for inventory purposes only.

(ii) SO₂: 40 CFR 60, Appendix A, Method 6, 6A, 6B, or 6C.

(iii) NO_x: 40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D or 7E.

(b) Natural Gas Firing:

(i) NO_x: 40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D or 7E.

(5) Calculations: To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.

(6) Production rate during testing: The production rate during testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

(7) Notification: At least 30 days prior to conducting stack testing, the permittee shall notify the Executive Secretary of the date, time and place of such testing. A

source test protocol shall be submitted along with the testing notification sent to the Executive Secretary. The source test protocol shall be approved by the Executive Secretary prior to testing. The source test protocol shall outline the proposed test methodologies, stack to be tested, and procedures to be used. A pretest conference shall be held, if directed by the Executive Secretary. The pretest conference shall include representation from the permittee, the tester, and the Executive Secretary. The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

II.B.3.b.2

Recordkeeping:

Results of all stack testing shall be recorded and maintained in accordance with the associated test method and Provision S.1 in Section I of this permit.

II.B.3.b.3

Reporting:

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.

II.B.3.c

Condition:

Natural gas shall be used as the primary fuel in all boilers. Coal shall be used only during periods of natural gas curtailment and for maintenance firing in Boilers 1-5. Natural gas curtailment is defined as periods when the natural gas provider/supplier imposes a curtailment or interruption of service, and the curtailment is involuntary and beyond the control of the permittee. Maintenance firings shall not exceed 1 percent of the annual BTU requirement. In addition, maintenance firings shall only be scheduled between March 1, and October 31 of any calendar year. [Authority granted under Utah SIP Section IX.H.2.b.YY; condition originated in DAQE-128-01]

II.B.3.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.3.c.2

Recordkeeping:

Records documenting fuel usage shall be kept showing: dates that natural gas was fired, dates that coal was fired, the duration in hours that coal was fired, the amount of coal consumed, and the reason for firing coal.

Records documenting the BTU content of all fuel fired annually and BTU content of all fuel fired for maintenance purposes shall be maintained. That information shall be used to demonstrate that annual boiler maintenance firings do not exceed 1 percent of the annual BTU requirement as follows:

$$\frac{(\text{BTU content of fuel fired for annual maintenance}/\text{annual BTU requirement})}{100}$$

Emissions estimates from coal combustion shall be included in the inventory reports.

II.B.3.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3.d

Condition:

Sulfur content of coal or any mixture of coals burned in Boilers 1-5 shall be no greater than 0.6 percent by weight. [Authority granted under R307-401-6(1) [BACT] & Utah SIP Section IX.H.2.b.YY; condition originated in DAQE-128-01]

II.B.3.d.1

Monitoring:

Sulfur content of coal shall be determined by ASTM Method D-3177-75. (origin: DAQE-128-01, Utah SIP Section IX.H.2.b.YY)

II.B.3.d.2

Recordkeeping:

The sulfur content (in weight percent) of each shipment of coal shall be recorded. (origin: DAQE-128-01, Utah SIP Section IX.H.2.b.YY)

II.B.3.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.3.e

Condition:

Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-128-01]

II.B.3.e.1

Monitoring:

During periods of natural gas usage, use of that fuel type shall be verified in lieu of monitoring via visible emissions observations.

Visible emissions observations shall be conducted for each boiler semiannually during a period of coal usage. Observations shall be conducted in accordance with 40 CFR, Part 60, Appendix A, Method 9.

II.B.3.e.2

Recordkeeping:

Records of fuel usage shall be maintained to document periods during which natural gas has been burned.

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.3.e.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4 **Conditions on UH Boilers (6-9)**

II.B.4.a **Condition:**

Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-128-01]

II.B.4.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.4.a.2 **Recordkeeping:**

In lieu of visible emissions observations, records of fuel usage shall be maintained to demonstrate that only natural gas is being burned.

II.B.4.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5 **Conditions on Misc Equip (10)**

II.B.5.a **Condition:**

Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-128-01]

II.B.5.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.5.a.2 **Recordkeeping:**

In lieu of visible emissions observations, records of fuel usage shall be maintained to demonstrate that only natural gas is being burned.

II.B.5.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.5.b **Condition:**

Maintenance firing of each emergency generator shall not exceed 25 hours per rolling 12-month period. Emergency generators shall be used for electricity production only during periods when electric power from the utilities is interrupted. [Authority granted under R307-401-6(1) (BACT); condition originated in DAQE-128-01]

II.B.5.b.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.5.b.2 **Recordkeeping:**

Records shall be maintained for each generator including: dates of use, reason for use (maintenance, emergency, other), total hours of start-up maintenance usage, total hours of emergency usage, total hours of usage calculated with a 12-month rolling total by the twentieth day of each month using the previous twelve months data.

II.B.5.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6

Conditions on Generators (11)

II.B.6.a

Condition:

Maintenance firing of each emergency generator shall not exceed 25 hours per rolling 12-month period. Emergency generators shall be used for electricity production only during periods when electric power from the utilities is interrupted. [Authority granted under R307-401-6(1) (BACT); condition originated in DAQE-128-01]

II.B.6.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.6.a.2

Recordkeeping:

Records shall be maintained for each generator including: dates of use, reason for use (maintenance, emergency, other), total hours of start-up maintenance usage, total hours of emergency usage, total hours of usage calculated with a 12-month rolling total by the twentieth day of each month using the previous twelve months data.

II.B.6.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6.b

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-128-01]

II.B.6.b.1

Monitoring:

During any period that the emergency generator(s) is(are) operated for longer than 12 hours consecutively, visual observation(s) of each generator exhaust shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visual emissions observer (VEO). If any visible emissions are observed, then an opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, by a certified VEO. If the generator(s) continue to operate on consecutive days following the initial observation, an opacity determination shall be performed on a daily basis.

II.B.6.b.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.6.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.6.c

Condition:

Sulfur content of the diesel fuels combusted shall be no greater than 0.5 % by weight. [Authority granted under R307- 401- 6(1) [BACT]; condition originated in DAQE-265-01]

II.B.6.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.6.c.2

Recordkeeping:

Fuel receipts shall be maintained to demonstrate usage of the following low-sulfur fuels having a sulfur content less than 0.5 percent by weight: Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D, Grade No. 1-D, Grade No. 2-D.

II.B.6.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7

Conditions on UC NSPS Boilers (13)

II.B.7.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-265-01]

II.B.7.a.1

Monitoring:

While burning natural gas, use of that fuel type shall be verified in lieu of monitoring via visible emissions observations.

During semi-annual periods when fuel oil is burned, an opacity observation shall be conducted. The opacity observation shall be conducted by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9, while the emission unit is operating. If visible emissions other than condensed water vapor are observed from the emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial visual emission observation. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.7.a.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.7.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7.b

Condition:

Fuel for Upper Campus Boilers 1-3 shall be limited to natural gas with the exception of #2 fuel oil or better combusted during maintenance firings and for periods of natural gas curtailment. Natural gas curtailment is defined as a period when the natural gas supplier

imposes a curtailment or interruption of service, and the curtailment is involuntary and beyond the control of the permittee. Maintenance firings shall not exceed 1 percent of the total annual Btu production. In addition, maintenance firings shall be scheduled between March 1st and October 31st. [Authority granted under R307-401-6(1)[BACT], 40 CFR 60.42c(d) Subpart Dc; condition originated in DAQE-265-01]

II.B.7.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.7.b.2

Recordkeeping:

Records documenting fuel usage shall be kept showing: dates that natural gas was fired, dates that fuel oil was fired, the duration in hours that fuel oil was fired, the grade of the fuel oil fired, the amount of fuel oil consumed, and the reason for firing fuel oil.

Records documenting the total BTU's of all fuel fired annually and total BTU's of all fuel fired for maintenance purposes shall be maintained. That information shall be used to demonstrate that annual boiler maintenance firings do not exceed 1 percent of the annual BTU requirement as follows:

(Total BTU's of fuel fired for annual maintenance/Total BTU's of all fuel fired annually)* 100

II.B.7.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7.c

Condition:

The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart A. [Authority granted under 40 CFR 60 (Subpart A); condition originated in DAQE-265-01]

II.B.7.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.7.c.2

Recordkeeping:

In accordance with 40 CFR 60.7(b), the permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of affected emission unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. These records and all other applicable records and notifications required by 40 CFR 60 Subpart A shall be maintained in accordance with provision I.S.1 of this permit. (origin: 40 CFR Subpart A)

II.B.7.c.3

Reporting:

The permittee shall comply with the reporting requirements in Section I of this permit and any additional reporting and notification requirements of 40 CFR 60 Subpart A. (origin: 40 CFR 60 Subpart A)

II.B.7.d

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including

associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-6(1) [BACT] & 40 CFR 60.11(d); condition originated in DAQE-265-01]

II.B.7.d.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.7.d.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.7.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7.e

Condition:

The following limits shall not be exceeded:

- A. 858 MM Scf of natural gas per rolling 12-month period for all boilers.
- B. 25 hours of maintenance operation per rolling 12-month period for each boiler when fired on diesel.

[Authority granted under R307-401-6(1) (BACT); condition originated in DAQE-265-01]

II.B.7.e.1

Monitoring:

Fuel consumption shall be determined based on a 12-month rolling total calculated by 20th day of each month using the previous 12 months data. Monthly natural gas consumption shall be determined using gas meters installed on each boiler.

II.B.7.e.2

Recordkeeping:

Records of consumption shall be kept on a daily basis. Records documenting boiler maintenance shall be kept and shall include: date of boiler maintenance, duration in hours, and fuel type used.

II.B.7.e.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.7.f

Condition:

The permittee shall keep daily records of the amounts of each fuel combusted each day, for each affected emission unit. [Authority granted under 40 CFR 60.48c(g); condition originated in 40 CFR 60.48c(g)]

II.B.7.f.1

Monitoring:

Fuel consumption for each affected emission unit shall be determined by a fuel meter, or other method approved by the Executive Secretary.

II.B.7.f.2

Recordkeeping:

Records of the amounts of each fuel combusted during each day for each affected unit shall be maintained as described in Provision I.S.1 of this permit.

II.B.7.f.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8

Conditions on UC Emergency Generator (14)

II.B.8.a

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-265-01]

II.B.8.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.8.a.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.8.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8.b

Condition:

Visible emission shall be no greater than 20 percent opacity except for operation not exceeding 3 minutes in any hour. [Authority granted under R307-201-1(4); condition originated in R307-201-1(4)]

II.B.8.b.1

Monitoring:

During any period that the emergency generator(s) is(are) operated for longer than 12 hours consecutively, visual observation(s) of each generator exhaust shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visual emissions observer (VEO). If any visible emissions are observed, then an opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, by a certified VEO. If the generator(s) continue to

operate on consecutive days following the initial observation, an opacity determination shall be performed on a daily basis.

II.B.8.b.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.8.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8.c

Condition:

The permittee shall use #2 fuel oil or better in the affected unit(s). [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-265-01]

II.B.8.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.8.c.2

Recordkeeping:

Fuel receipts shall be maintained to demonstrate usage of the following low-sulfur fuels having a sulfur content less than 0.5 percent by weight: Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D, Grade No. 1-D, Grade No. 2-D.

II.B.8.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.8.d

Condition:

Maintenance firing of each emergency generator shall not exceed 25 hours per rolling 12-month period. Emergency generators shall be used for electricity production only during periods when electric power from the utilities is interrupted. [Authority granted under R307-401-6(1) (BACT); condition originated in DAQE-265-01]

II.B.8.d.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.8.d.2

Recordkeeping:

Records shall be maintained for each generator including: dates of use, reason for use (maintenance, emergency, other), total hours of start-up maintenance usage, total hours of emergency usage, total hours of usage calculated with a 12-month rolling total by the twentieth day of each month using the previous twelve months data.

II.B.8.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.9 **Conditions on New Student Housing -Rice Stadium NG Equipment (18)**

II.B.9.a **Condition:**

Natural gas usage shall be no greater than 165 MMBTU per 12 month rolling period.
[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.9.a.1 **Monitoring:**

Based on the first day of each month, a new 12-month total shall be calculated using data from the previous twelve months. Monthly calculations shall be made no later than 20 days after the end of each calendar month. For the Rice Stadium boiler, consumption shall be determined daily using a gas meter. For all other natural gas fired equipment, consumption shall be determined using monthly billings.

II.B.9.a.2 **Recordkeeping:**

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.9.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10 **Conditions on Rice Stadium NSPS Boiler (15)**

II.B.10.a **Condition:**

The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart A.
[Authority granted under 40 CFR 60 (Subpart A); condition originated in DAQE-264-01]

II.B.10.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.10.a.2 **Recordkeeping:**

In accordance with 40 CFR 60.7(b), the permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of affected emission unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. These records and all other applicable records and notifications required by 40 CFR 60 Subpart A shall be maintained in accordance with provision I.S.1 of this permit. (origin: 40 CFR Subpart A)

II.B.10.a.3 **Reporting:**

The permittee shall comply with the reporting requirements in Section I of this permit and any additional reporting and notification requirements of 40 CFR 60 Subpart A. (origin: 40 CFR 60 Subpart A)

II.B.10.b **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable

operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-6(1) [BACT] & 40 CFR 60.11(d); condition originated in DAQE-264-01]

II.B.10.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.10.b.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.10.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10.c

Condition:

Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.10.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.10.c.2

Recordkeeping:

In lieu of visible emissions observations, records of fuel usage shall be maintained to demonstrate that only natural gas is being burned.

II.B.10.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.10.d

Condition:

The permittee shall keep daily records of the amounts of each fuel combusted each day, for each affected emission unit. [Authority granted under 40 CFR 60.48c(g); condition originated in 40 CFR 60.48c(g)]

II.B.10.d.1

Monitoring:

Fuel consumption for each affected emission unit shall be determined by a fuel meter, or other method approved by the Executive Secretary.

II.B.10.d.2

Recordkeeping:

Records of the amounts of each fuel combusted during each day for each affected unit shall be maintained as described in Provision I.S.1 of this permit.

II.B.10.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.11 **Conditions on Rice Stadium Small Boiler (30)**

II.B.11.a **Condition:**

Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.11.a.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.11.a.2 **Recordkeeping:**

In lieu of visible emissions observations, records of fuel usage shall be maintained to demonstrate that only natural gas is being burned.

II.B.11.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.11.b **Condition:**

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-5; condition originated in DAQE-264-01]

II.B.11.b.1 **Monitoring:**

Records required for this permit condition will serve as monitoring.

II.B.11.b.2 **Recordkeeping:**

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.11.b.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.12 **Conditions on Rice Stadium Emergency Diesel Generator (16)**

II.B.12.a **Condition:**

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.12.a.1 **Monitoring:**

During any period that the emergency generator(s) is(are) operated for longer than 12 hours consecutively, visual observation(s) of each generator exhaust shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visual

emissions observer (VEO). If any visible emissions are observed, then an opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, by a certified VEO. If the generator(s) continue to operate on consecutive days following the initial observation, an opacity determination shall be performed on a daily basis.

II.B.12.a.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.12.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.12.b

Condition:

The permittee shall use #2 fuel oil or better in the affected unit(s). [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.12.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.12.b.2

Recordkeeping:

Fuel receipts shall be maintained to demonstrate usage of the following low-sulfur fuels having a sulfur content less than 0.5 percent by weight: Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D, Grade No. 1-D, Grade No. 2-D.

II.B.12.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.12.c

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-6(1) [BACT] & R307-401-5; condition originated in DAQE-264-01]

II.B.12.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.12.c.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.12.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.12.d

Condition:

Maintenance firing of each emergency generator shall not exceed 25 hours per rolling 12-month period. Emergency generators shall be used for electricity production only during periods when electric power from the utilities is interrupted. [Authority granted under R307-401-6(1) (BACT); condition originated in DAQE-264-01]

II.B.12.d.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.12.d.2

Recordkeeping:

Records shall be maintained for each generator including: dates of use, reason for use (maintenance, emergency, other), total hours of start-up maintenance usage, total hours of emergency usage, total hours of usage calculated with a 12-month rolling total by the twentieth day of each month using the previous twelve months data.

II.B.12.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.13

Conditions on New Student Housing Emergency Diesel Generators (17)

II.B.13.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.13.a.1

Monitoring:

During any period that the emergency generator(s) is(are) operated for longer than 12 hours consecutively, visual observation(s) of each generator exhaust shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visual emissions observer (VEO). If any visible emissions are observed, then an opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, by a certified VEO. If the generator(s) continue to operate on consecutive days following the initial observation, an opacity determination shall be performed on a daily basis.

II.B.13.a.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.13.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.13.b

Condition:

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected emission unit, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307-401-6(1) [BACT] & R307-401-5; condition originated in DAQE-264-01]

II.B.13.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.13.b.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.13.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.13.c

Condition:

The permittee shall use #2 fuel oil or better in the affected unit(s). [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-264-01]

II.B.13.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.13.c.2

Recordkeeping:

Fuel receipts shall be maintained to demonstrate usage of the following low-sulfur fuels having a sulfur content less than 0.5 percent by weight: Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D, Grade No. 1-D, Grade No. 2-D.

II.B.13.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.13.d

Condition:

Maintenance firing of each emergency generator shall not exceed 25 hours per rolling 12-month period. Emergency generators shall be used for electricity production only during periods when electric power from the utilities is interrupted. [Authority granted under R307-401-6(1) (BACT); condition originated in DAQE-264-01]

II.B.13.d.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.13.d.2

Recordkeeping:

Records shall be maintained for each generator including: dates of use, reason for use (maintenance, emergency, other), total hours of start-up maintenance usage,

total hours of emergency usage, total hours of usage calculated with a 12-month rolling total by the twentieth day of each month using the previous twelve months data.

II.B.13.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14

Conditions on Combustion Lab- U-Furnace (22)

II.B.14.a

Condition:

Emissions to the Atmosphere shall not exceed the following concentrations and rates:

PM₁₀0.92 lb/hr
SO₂3.00 lb/hr
NO_x 2.64 lb/hr.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-962-96]

II.B.14.a.1

Monitoring:

(1) Stack testing frequency: every 5 years based on the date of the last stack test.

(2) Stack testing methods:

(a) PM₁₀: For stacks in which no liquid drops are present, 40 CFR 51, Appendix M, Methods 201 or 201a shall be used. The back half condensibles shall also be tested using a method approved by the Executive Secretary. All particulate captured shall be considered PM₁₀.

For stacks in which liquid drops are present, methods to eliminate the liquid drops shall be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate. The back half condensibles shall also be tested using a method specified by the Executive Secretary. The portion of the front half of the catch considered PM₁₀ shall be based on information in AP-42, Appendix C or other data acceptable to the Executive Secretary.

The back half condensibles shall be used for inventory purposes only.

(b) SO₂: 40 CFR 60, Appendix A, Method 6, 6A, 6B, or 6C.

(c) NO_x: 40 CFR 60, Appendix A, Method 7, 7A, 7B, 7C, 7D or 7E.

(3) Sample location: 40 CFR 60, Appendix A, Method 1.

(4) Volumetric flow rate: 40 CFR 60, Appendix A, Method 2.

(5) Calculations: To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be

multiplied by the volumetric flow rate and any necessary conversion factors determined by the Executive Secretary to give the results in the specified units of the emission limitation.

(6) Production rate during testing: The production rate during testing shall be no less than 90% of the maximum production achieved in the previous three (3) years.

(7) Notification: At least 30 days prior to conducting stack testing, the permittee shall notify the Executive Secretary of the date, time and place of such testing. A source test protocol shall be submitted along with the testing notification sent to the Executive Secretary. The source test protocol shall be approved by the Executive Secretary prior to testing. The source test protocol shall outline the proposed test methodologies, stack to be tested, and procedures to be used. A pretest conference shall be held, if directed by the Executive Secretary. The pretest conference shall include representation from the permittee, the tester, and the Executive Secretary. The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

II.B.14.a.2

Recordkeeping:

Results of all stack testing shall be recorded and maintained in accordance with the associated test method and Provision S.1 in Section I of this permit.

II.B.14.a.3

Reporting:

The results of stack testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. Reports shall clearly identify results as compared to permit limits and indicate compliance status. There are no additional reporting requirements for this provision except those specified in Section I of this permit.

II.B.14.b

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-962-96]

II.B.14.b.1

Monitoring:

A visual opacity survey of each affected emission unit shall be performed on a quarterly basis by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than steam are observed from an emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial survey. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.14.b.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60,

Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.14.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14.c

Condition:

All affected equipment, including associated air pollution control equipment shall be adequately and properly maintained. All pollution control equipment shall be installed, maintained, and operated. A copy of all manufacturers' operating instructions for pollution control equipment and pollution emitting equipment shall be kept on site. These instructions shall be available to all employees who operate the equipment and shall be made available to compliance inspectors upon request. [Authority granted under R307-401-5; condition originated in DAQE-962-96]

II.B.14.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.14.c.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.14.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14.d

Condition:

Hours of operation while using coals and various other experimental fuels shall not exceed 2,500 hours per 12-month period. The feed rate of coal shall not exceed 10 lbs/hr.

[Authority granted under R307- 401-6(1) [BACT]; condition originated in DAQE-962-96]

II.B.14.d.1

Monitoring:

Based on the 1st day of each month, using the previous twelve months data, a rolling 12 month total shall be calculated for hours of operation using fuels other than natural gas.

Hourly coal feed rates shall also be recorded.

II.B.14.d.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.14.d.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14.e

Condition:

Natural gas consumption shall be no greater than 5276400 cubic feet per rolling 12-month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-962-96]

II.B.14.e.1

Monitoring:

Based on the first day of each month, a new 12-month rolling total shall be calculated within 20 days of the beginning of each month using data from the previous twelve months.

II.B.14.e.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.14.e.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.14.f

Condition:

Sulfur content of coal or any mixture of coals burned shall be no greater than 5 percent by weight. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-962-96]

II.B.14.f.1

Monitoring:

Sulfur content of coal shall be determined by ASTM Method D-4294-89 or approved equivalent.

II.B.14.f.2

Recordkeeping:

The sulfur content (in weight percent) of each shipment of coal shall be recorded.

II.B.14.f.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.15

Conditions on Paint Booth and Print Plant Combined (12)

II.B.15.a

Condition:

Combined emissions of VOC from the Paint Booth and Print Plant shall not exceed 5.0 tons per rolling 12-month period. Combined HAP emissions from the Paint Booth and Print Plant shall not exceed 1.0 tons per rolling 12-month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-712-99]

II.B.15.a.1

Monitoring:

Emissions shall be calculated on a rolling 12-month total. Based on the first day of each month, a new 12-month total shall be calculated using data from the previous twelve months. Monthly calculations shall be made no later than 20 days after the end of each calendar month.

II.B.15.a.2

Recordkeeping:

VOC and HAP emissions shall be determined by maintaining a record of VOC and HAP emitting materials used each month. The records shall include the following data for each material used:

1. Name of the VOC or HAP emitting material, such as; paint, adhesive, solvent, thinner, reducers, chemical compounds, toxics, isocyanates, etc.
2. Density of each material used (pounds per gallon).
3. Percent by weight of VOC and HAP in each material used.
4. Gallons of each VOC and HAP emitting material used each month.
5. The amount of VOC and individual HAP emitted monthly by each material used, calculated by the following procedure:

$$\text{VOC} = \frac{(\% \text{ VOC by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

$$\text{HAP} = \frac{(\% \text{ HAP by Weight})}{(100)} \times \frac{(\text{Density lb})}{(\text{gal})} \times (\text{Gal Consumed}) \times \frac{(1 \text{ ton})}{(2,000 \text{ lb})}$$

6. The total amount of VOC and HAP emitted monthly from all materials used.
7. The amount of VOC and HAP reclaimed for the month shall be similarly quantified and subtracted from the quantities calculated above, to provide the monthly total VOC and HAP emissions.

II.B.15.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.16

Conditions on Print Plant (24)

II.B.16.a

Condition:

Solvent wiping cloths shall be kept in covered containers when not in use. [Authority granted under R307-340-2(2)(b); condition originated in R307-340-2(2)(b)]

II.B.16.a.1

Monitoring:

Daily inspections shall be conducted to ensure that solvent laden rags are stored in closed containers when not in use.

II.B.16.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.16.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.16.b

Condition:

Solvents containing volatile organic compounds (VOC) shall be kept in covered containers when not in use. [Authority granted under R307-325-1(2); condition originated in R307-325-1(2)]

II.B.16.b.1

Monitoring:

Daily inspections shall be conducted to ensure that VOC containing solvents are stored in closed containers when not in use.

II.B.16.b.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.16.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.17

Conditions on Paint Booth (25)

II.B.17.a

Condition:

Visible emissions shall be no greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-712-99]

II.B.17.a.1

Monitoring:

In lieu of monitoring via visible emissions observations, the spray booth particulate capture system shall be inspected before each use to verify that it is functioning properly. Inspections shall consist of the following observations:

(A) Inspection for holes in the particulate filters.

(B) Inspection of the particulate filters to determine proper installation within the support rack.

(C) Inspection of the exhaust fan to ensure that it is operating.

II.B.17.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.17.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.18

Conditions on Huntsman Cancer Institute (26)

II.B.18.a

Condition:

Combined usage of natural gas by the boilers shall not exceed 212.10 MM SCF per rolling 12-month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-081-02]

- II.B.18.a.1 **Monitoring:**
- Fuel consumption shall be determined on a rolling 12-month total with a new total calculated by the 20th day of each month using data from the previous 12 months. Usage shall be determined from monthly gas bills.
- II.B.18.a.2 **Recordkeeping:**
- Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.18.a.3 **Reporting:**
- There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.18.b **Condition:**
- At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Authority granted under R307- 401- 6(1) [BACT] & 40 CFR 60.11(d); condition originated in DAQE-081-02]
- II.B.18.b.1 **Monitoring:**
- Records required for this permit condition will serve as monitoring.
- II.B.18.b.2 **Recordkeeping:**
- Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.18.b.3 **Reporting:**
- There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.19 **Conditions on Huntsman Cancer Institute - NSPS Boilers (27)**
- II.B.19.a **Condition:**
- Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-081-02]
- II.B.19.a.1 **Monitoring:**
- Records required for this permit condition will serve as monitoring.
- II.B.19.a.2 **Recordkeeping:**
- In lieu of visible emissions observations, records of fuel usage shall be maintained to demonstrate that only natural gas is being burned.

II.B.19.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.19.b

Condition:

The permittee shall comply with all applicable requirements of 40 CFR 60 Subpart A. [Authority granted under 40 CFR 60 (Subpart A); condition originated in 40 CFR Part 60.48c(g)]

II.B.19.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.19.b.2

Recordkeeping:

In accordance with 40 CFR 60.7(b), the permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of affected emission unit; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. These records and all other applicable records and notifications required by 40 CFR 60 Subpart A shall be maintained in accordance with provision I.S.1 of this permit. (origin: 40 CFR Subpart A)

II.B.19.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.19.c

Condition:

The permittee shall keep daily records of the amounts of each fuel combusted each day, for each affected emission unit. [Authority granted under 40 CFR 60.48c(g); condition originated in 40 CFR 60.48c(g)]

II.B.19.c.1

Monitoring:

Fuel consumption for each affected emission unit shall be determined by a fuel meter, or other method approved by the Executive Secretary.

II.B.19.c.2

Recordkeeping:

Records of the amounts of each fuel combusted during each day for each affected unit shall be maintained as described in Provision I.S.1 of this permit.

II.B.19.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.20

Conditions on Huntsman Cancer Institute - Small Boilers (28)

II.B.20.a

Condition:

Visible emissions shall be not greater than 10 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-081-02]

II.B.20.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.20.a.2

Recordkeeping:

In lieu of visible emissions observations, records of fuel usage shall be maintained to demonstrate that only natural gas is being burned.

II.B.20.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.21

Conditions on Huntsman Cancer Institute - Diesel Em. Generators. (29)

II.B.21.a

Condition:

Use of each generator, including maintenance, shall not exceed 300 hours per rolling 12-month period. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-081-02]

II.B.21.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.21.a.2

Recordkeeping:

Records shall be maintained for each generator including: dates of use, total hours of emergency usage, and total hours of usage calculated with a 12-month rolling total by the twentieth day of each month using the previous twelve months data.

II.B.21.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.21.b

Condition:

The permittee shall combust only #1 or #2 low sulfur fuel oils. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-081-02]

II.B.21.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.21.b.2

Recordkeeping:

Fuel receipts shall be maintained to demonstrate usage of the following low-sulfur fuels having a sulfur content less than 0.5 percent by weight: Grade Low Sulfur No. 1-D, Grade Low Sulfur No. 2-D, Grade No. 1-D, Grade No. 2-D.

II.B.21.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.21.c

Condition:

Visible emission shall be no greater than 20 percent opacity except for operation not exceeding 3 minutes in any hour. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-081-02]

II.B.21.c.1

Monitoring:

During any period that the emergency generator(s) is(are) operated for longer than 12 hours consecutively, visual observation(s) of each generator exhaust shall be made by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. The individual is not required to be a certified visual emissions observer (VEO). If any visible emissions are observed, then an opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9, by a certified VEO. If the generator(s) continue to operate on consecutive days following the initial observation, an opacity determination shall be performed on a daily basis.

II.B.21.c.2

Recordkeeping:

A log of opacity observations shall be maintained in accordance with Provision I.S.1 of this permit. If an observation indicates visible emissions, a notation of those visible emissions shall be made in the log. All data required by 40 CFR 60, Appendix A, Method 9 shall also be maintained in accordance with Provision I.S.1 of this permit.

II.B.21.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.22

Conditions on Incinerator (30)

II.B.22.a

Condition:

Permittee shall adequately and properly maintain the identified equipment. [Authority granted under R307-401-5; condition originated in 01/16/81]

II.B.22.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.22.a.2

Recordkeeping:

Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.22.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.22.b

Condition:

Visible emissions shall be no greater than 20 percent opacity. [Authority granted under R307-401-6(1) [BACT]; condition originated in 01/16/81]

II.B.22.b.1

Monitoring:

Opacity observations of emissions shall be conducted annually in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.22.b.2

Recordkeeping:

Results of observations and all data required by 40 CFR, Part 60, Appendix A, Method 9 shall be

maintained in accordance with Provision I.S.1 of this permit.

II.B.22.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.22.c

Condition:

The permittee shall verify exemption from R307-222 (Emissions Standards: Existing Incinerators for Hospital, Medical, Infectious Wastes) by keeping readily accessible records demonstrating that only pathological, low-level radioactive, and chemotherapeutic wastes, or combination of those wastes, are being incinerated. [Authority granted under R307-222-1(2)(a)(ii); condition originated in R307-222-1(2)(a)(ii)]

II.B.22.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.22.c.2

Recordkeeping:

Records shall be maintained as described in I.S.1 of this permit and shall include dates that the incinerator is used, and the type of waste burned.

II.B.22.c.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.23

Conditions on Laboratory Fume Hoods (31)

II.B.23.a

Condition:

A list of fume hoods located throughout the campus shall be maintained. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-0607-93]

II.B.23.a.1

Monitoring:

The list of fume hoods shall be reviewed every six months and updated as necessary.

II.B.23.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.23.a.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.23.b

Condition:

Where applicable to the process used within the fume hood, emissions limiting rotary evaporators (90% efficient) shall be used to the maximum extent possible. [Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-0607-93]

II.B.23.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.23.b.2

Recordkeeping:

Records shall be maintained including the following:

- (1) A list of processes requiring rotary evaporators,
- (2) Records documenting the use of rotary evaporators with the above processes, and
- (3) Records documenting the efficiency of the rotary evaporators used.

Records shall be maintained as specified in Section I.S.1 of this permit.

II.B.23.b.3

Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.23.c

Condition:

All operators of laboratory fume hoods shall be familiar with the content and comply with the instructions contained in the following two documents:

- (A) Chemical Hygiene Plan of the University of Utah.
- (B) Safety and Health Manual.

These documents shall be made available to all operators of fume hoods (at least one copy for each building with laboratories. The University shall periodically update these documents.

[Authority granted under R307-401-6(1) [BACT]; condition originated in DAQE-0607-93]

II.B.23.c.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.23.c.2

Recordkeeping:

Records shall be maintained including the following:

- (1) Annual training on fume hood use based on the "Chemical Hygiene Plan of the University of Utah" and the "Safety and Health Manual".
- (2) Verification every six-months that copies of the "Chemical Hygiene Plan of the University of Utah" and the "Safety and Health Manual" are located in each building with a laboratory.
- (3) Records documenting annual reviews and any updates of the "Chemical Hygiene Plan of the University of Utah" and the "Safety and Health Manual"

Records shall be maintained as specified in Section I.S.1 of this permit.

- II.B.23.c.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.23.d **Condition:**
Permittee shall adequately and properly maintain the identified equipment. [Authority granted under R307-401-5; condition originated in DAQE-0607-93]
- II.B.23.d.1 **Monitoring:**
Records required for this permit condition will serve as monitoring.
- II.B.23.d.2 **Recordkeeping:**
Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.23.d.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.24 **Conditions on Fuel Storage Tanks (NSPS) (33)**
- II.B.24.a **Condition:**
The permittee shall keep readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. These records shall be kept for the life of the source. [Authority granted under 40 CFR 60.116b(b); condition originated in 40 CFR Part 60.116b(b)]
- II.B.24.a.1 **Monitoring:**
Records required for this permit condition will serve as monitoring.
- II.B.24.a.2 **Recordkeeping:**
A copy of the required records shall be maintained and made available to the Executive Secretary upon request.
- II.B.24.a.3 **Reporting:**
There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.C. **Emissions Trading.**
(R307-415-6a(10))
Not applicable to this source.
- II.D. **Alternative Operating Scenarios.**
(R307-415-6a(9))
Not applicable to this source.

Section III: PERMIT SHIELD

A permit shield was not granted for any specific requirements.

Section IV: ACID RAIN PROVISIONS.

This source is not subject to Title IV. This section is not applicable.

REVIEWER COMMENTS

This operating permit incorporates all applicable requirements contained in the following documents:

DAQE-081-02	dated	January 29, 2002
DAQE-264-01	dated	April 26, 2001
DAQE-265-01	dated	April 26, 2001
DAQE-128-01	dated	February 20, 2001
DAQE-712-99	dated	August 31, 1999
DAQE-962-96	dated	October 15, 1996
DAQE-0607-93	dated	July 28, 1993
01/16/81	dated	January 16, 1981

1. Comment on an item originating in DAQE-128-01 regarding permitted source (Source-wide)

AO Condition 13: Includes the requirement that natural gas be used as primary fuel. Lower Campus Boiler Medium Sized NG Fired Boilers and boilers included in Lower Campus Misc. Natural Gas Fired Equipment can burn only natural gas by design. Hence, this requirement is being carried forward for that equipment, but as part of the emissions unit description only. A separate permit requirement is retained for the Lower Campus Large Boilers because they have dual fuel capability. [Comment last updated on 4/04/2002]

2. Comment on an item originating in DAQE-265-01 regarding UC Emergency Generator (Unit 14)

AO Condition 11: AO condition #11 requires the generators to use 0.5 percent sulfur fuels or less in the generators. That condition is subsumed by a more stringent limitation in AO condition #10 which requires #1 or #2 fuel oils. Since #1 and #2 fuel oils contain less than 0.5 percent sulfur by weight, AO condition #11 is unnecessary and is not carried forth into this permit. [Comment last updated on 4/22/2002]

3. Comment on an item originating in DAQE-264-01 regarding New Student Housing-Rice Stadium NG Equipment (Unit 18)

AO condition 10: Includes the requirement that natural gas be used as primary fuel for boilers and comfort heating equipment. This equipment can burn only natural gas by design. Hence, the requirement is being carried forward for that equipment as part of the emissions unit descriptions only. [Comment last updated on 4/03/2002]

4. Comment on an item originating in DAQE-962-96 regarding permitted source (Source-wide)

Conditions #9A, B, and C: not included in the Title V permit because the Kiln and CFBC have been removed and the incinerator was never installed. [Comment last updated on 11/19/2002]

5. Comment on an item originating in DAQE-081-02 regarding Huntsman Cancer Institute (Unit 26)

Requirement for natural gas use by boilers: AO condition #11 requires that the boilers use natural gas only. The boilers are natural gas by design which is noted in the emissions unit description. [Comment last updated on 4/03/2002]

6. Comment on an item originating in DAQE-081-02 regarding Huntsman Cancer Institute (Unit 26)

Requirement for 0.5 percent sulfur fuel-Huntsman Center Generators: AO condition #12 requires the generators to use 0.5 percent sulfur fuels or less in the generators. That condition is subsumed by a more stringent limitation in AO condition #11 which requires #1 or #2 fuel oils. Since #1 and #2 fuel oils contain less than 0.5 percent sulfur by weight, AO condition #12 is unnecessary and is not carried forth into this permit. [Comment last updated on 4/03/2002]

7. Comment on an item originating in DAQE-962-96 regarding Combustion Lab- U-Furnace (Unit 22)

Posting AO- Combustion Lab: AO condition #4 is not being carried forward into the Title V permit. This condition requires that AO DAQE-962-96 be posted on site and that employees receive training on the AO requirements. Since the Title V permit will be used during future inspections, it no longer makes sense to require the AO to be posted on site. Also, compliance with the monitoring requirements of the Title V permit will demonstrate that employees have received instruction as to their responsibilities in operating equipment.

DAQ plans to rectify these discrepancies between the AO and Title V permit by revising the AO at the earliest opportunity. [Comment last updated on 11/25/2002]

8. Comment on an item originating in DAQE-712-99 regarding Print Plant (Unit 24)

AO Condition 4: Requires annual training for all employees operating equipment and will not be carried forward into the Title V permit. Compliance with the monitoring and recordkeeping requirements for the Print Plant will demonstrate adequate training for minimizing emissions.

DAQ plans to rectify these discrepancies between the AO and Title V permit by revising the AO at the earliest opportunity. [Comment last updated on 11/25/2002]

9. Comment on an item originating in DAQE-712-99 regarding Paint Booth (Unit 25)

AO Condition 9: Requirement for the paint booth to be equipped with particulate filters. This design requirement is included as part of the emissions unit description. [Comment last updated on 4/03/2002]

10. Comment on an item originating in DAQE-264-01 regarding permitted source (Source-wide)

AO condition 15: Requirement for emergency plan update. The previous emergency plan was general enough that an update was unnecessary. [Comment last updated on 4/23/2002]

11. Comment on an item originating in DAQE-265-01 regarding permitted source (Source-wide)

AO condition 16: Requirement for emergency plan update. The previous emergency plan was general enough that an update was unnecessary. [Comment last updated on 4/23/2002]

12. Comment on an item originating in DAQE-264-01 regarding Rice Stadium Emergency Diesel Generator (Unit 16)

AO Condition 11: AO condition #10 requires the generators to use #2 diesel fuel or better. Since #2 fuel oils contain less than 0.85 lbs sulfur per million gross BTU heat input, UACR 307-203-1 is subsumed by AO condition #10. Hence, the state regulation UACR 307-203-1 is not carried forth into this permit. [Comment last updated on 5/20/2002]

13. Comment on an item originating in DAQE-264-01 regarding New Student Housing Emergency Diesel Generators (Unit 17)

AO Condition 11: AO condition #10 requires the generators to use #2 diesel fuel or better. Since #2 fuel oils contain less than 0.85 lbs sulfur per million gross BTU heat input, UACR 307-203-1 is subsumed by AO condition #10. Hence, the state regulation UACR 307-203-1 is not carried forth into this permit. [Comment last updated on 5/20/2002]

14. Comment on an item originating in DAQE-0607-93 regarding Laboratory Fume Hoods (Unit 31)

AO Condition 5: Requirement for AO DAQE-0607-93 to be posted on site and for employee training has not been directly carried forth into this permit. Compliance with the monitoring, recordkeeping, and reporting requirements of this permit will demonstrate adequate training. Hence, the training requirement is implicitly included in this permit. Posting of the AO was intended to support the training requirement and becomes unnecessary as adequate training will be otherwise demonstrated.

DAQ plans to rectify these discrepancies between the AO and Title V permit by revising the AO at the earliest opportunity. [Comment last updated on 11/25/2002]

15. Comment on an item originating in DAQE-712-99 regarding Paint Booth and Print Plant Combined (Unit 12)

AO Condition 11: This is a general maintenance condition that has been subsumed by more specific maintenance activities listed in the permit.

There are a limited number of things that can be done as far as air pollution controlling maintenance activities for the print shop and paint booth. In the case of the print shop, there are conditions in the AO and the Title V Permit, that require VOC containing materials to be stored in covered containers. For the paint booth, monitoring in the Title V Permit includes maintenance activities for the particulate filters. After surveying the source, DAQ realized that there is nothing beyond those activities that the general maintenance condition would bring into the permit. Hence, the general maintenance condition is redundant with conditions in the Title V permit and hasn't been carried over. [Comment last updated on 11/25/2002]

16. Comment on an item originating in DAQE-962-96 regarding Combustion Lab- U-Furnace (Unit 22)

AO condition 9E: Requires daily recordkeeping of natural gas usage. That requirement is not being carried over into this permit because there is no daily limit for natural gas usage. DAQ plans to rectify this discrepancy between the AO and Title V permit by revising the AO at the earliest opportunity. [Comment last updated on 11/25/2002]

17. Comment on an item originating in DAQE-0607-93 regarding Laboratory Fume Hoods (Unit 31)

AO Condition 9: The requirement that visible emissions from the fume hoods not exceed 10% opacity has not been carried forward into the Title V permit. Given the nature of the processes controlled by the Fume Hoods (mixing of chemical reagents) it is improbable that the limit will ever be exceeded.

DAQ plans to rectify these discrepancies between the AO and Title V permit by revising the AO at the earliest opportunity. [Comment last updated on 11/25/2002]